Hannah Marie Wood

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Professional Appointments

National Science Foundation Postdoctoral Fellow. Department of Evolution and Ecology, University of California at Davis, USA. Advisor: Peter Wainwright. 2013 – present.

Postdoctoral Fellow. Center for Macroecology, Evolution and Climate and the Zoological Museum, University of Copenhagen, Denmark. Advisor: Nikolaj Scharff. 2012.

Education

Ph.D., Environmental Sciences, Policy and Management, University of California at Berkeley. Advisor: Rosemary Gillespie and Charles Griswold. 2006-2011.

M.S., Ecology and Systematics, San Francisco State University & California Academy of Sciences Natural History Museum. Advisors: Greg Spicer and Charles Griswold. 2003-2005.

B.A., English Literature, emphasis in Post-Modern Literature, University of California at Berkeley. 1994-1999.

Publications

Wood, H.M., Gillespie, R.G., Griswold, C.E. 2013. Treating fossils as terminal taxa in divergence time estimation reveals ancient vicariance patterns in the Palpimanoid spiders. *Systematic Biology*. 62: 264-284.

Wood, H.M., Gillespie, R.G., Griswold, C.E. 2012. Phylogenetic placement of pelican spiders (Archaeidae, Araneae), with insight into evolution of the "neck" and predatory behaviours of the superfamily Palpimanoidea. *Cladistics*. 28: 598-626.

Griswold, C.E., **Wood, H.M.**, Carmichael, A.D. 2012. The lace web spiders (Araneae, Phyxelididae) of Madagascar: phylogeny, biogeography and taxonomy. *Zoological Journal of the Linnean Society*. 164: 728-810.

Wood, H.M. 2008. A revision of the assassin spiders of the *Eriauchenius* gracilicollis group, a clade of spiders endemic to Madagascar (Araneae: Archaeidae). *Zoological Journal of the Linnean Society* 152:255-296.

Wood, H.M., Griswold, C.E., Spicer, G.S. 2007. Phylogenetic relationships within an endemic group of Malagasy 'assassin spiders' (Araneae, Archaeidae): ancestral character reconstruction, convergent evolution and biogeography. *Molecular Phylogenetics and Evolution* 45:612-619.

Grants and Awards

2013. National Science Foundation Postdoctoral Fellow, $123,000: "Function and rates of diversification in complex miniature structures: the trap jaw mechanism in spiders."

2009. National Science Foundation Doctoral Dissertation Improvement Grant, $14,645: "How ecological, behavioral and morphological traits have shaped diversification patterns in assassin spiders."

2008. National Science Foundation East Asian & Pacific Summer Institutes, New Zealand, $7,500: "Ecological, behavioral, and biogeography patterns of New Zealand assassin spiders."

2008. Julius H. Freitag Fellowship, Organisms and Environment Departmental Award, $1000

2006 – 20011. Walker Fund, Essig Museum of Entomology, $1,000.

2006 – 20011. Exline-Frizzel Fund, California Academy of Sciences, $2,500.

2007. Lewis and Clark Fund for Exploration and Field Research, American Philosophical Society, $1,000.

2004. Graduate Fellowship, California Academy of Sciences, $12,000.

2003. Presidio Trust/Golden Gate National Recreation Area Grant, $12,000.

2003. Robert K. Maxwell Scholarship, San Francisco State University, $3,000.

Teaching and Mentoring Experience

2013. Lawrence Berkeley National Lab Advance Light Synchrotron, currently working with a UC Berkeley engineering undergraduate to perform kinematic simulations on 3D computer models.

2010 & 2011. University of California at Berkeley, Graduate Student Instructor, "Spider Biology": ran laboratory where students learned to key out spiders and create a collection, and organized and participated in field trips.

2010. University of California at Berkeley, trained and mentored undergraduate student in genetic sequencing techniques.

2005. California Academy of Sciences Natural History Museum, trained international student for a summer systematic research program; trained student on Scanning Electron Microscope, AutoMontage, and dissection techniques.

2003 – 2005. San Francisco State University, organized and trained four undergraduates in an inventory project examining the occurrence and abundance of native bees in restored sand dunes, trained them in field techniques, advised them in their senior projects and trained them in collecting and preserving insects to create a permanent collection for the Golden Gate National Recreation Area.

2004. San Francisco State University, Graduate Student Instructor, "Insect Taxonomy": ran laboratory where students learned to key out insects and create a collection, and organized and participated in field trips.

2003. San Francisco State University, Graduate Student Instructor, "General Biology": ran laboratory for introductory biology course.

Presentations

Forthcoming 2013. Society for Integrative and Comparative Biology, Austin, Texas: "Evolution of a novel trait in pelican spiders"

2012. European Congress of Arachnology, Ljubljana, Slovenia: "Treating fossils as terminal taxa in divergence time estimation reveals ancient vicariance patterns in the Palpimanoidea spiders"

2012. Evolution, Ottawa, Canada: "Treating fossils as terminal taxa in divergence time estimation reveals ancient vicariance patterns"

2011. American Arachnology Society, Portland, Oregon, **awarded Best Student Presentation**: "The evolution of a complex, novel structure, the trap-jaw mechanism in spiders (Mecysmaucheniidae, Araneae) "

2010. Canadian Entomology Society, Vancouver, Canada: "Evolution of Stealth Versus Speed Strategies of Prey Capture in Pelican and Trap-Jaw Spiders (Araneae: Mecysmaucheniidae, Archaeidae)"

2010. International Congress of Arachnology, Siedlce, Poland, **awarded Best Student Presentation**: "Archaeid and mecysmaucheniid spiders: phylogeny, biogeography and evolution of the carapace shape"

2009. Evolution, Moscow, Idaho Presentation: "Assassin spiders: biogeography, morphological novelty and predatory behaviors"

2007. International Congress of Arachnology, Sao Pedro, Brazil Presentation: "Phylogenetic Relationships within an endemic group of Malagasy assassin spiders (Archaeidae, Araneae)"

International Field Expeditions

2013: Chile
2011: South Africa; New Zealand; Philippines
2009: Chile; Germany & Denmark; Australia
2008: Madagascar; New Zealand; Chile
2005: South Africa & Madagascar; New Zealand

Academic Service

Reviewer: Systematic Biology, Molecular Phylogenetics and Evolution, Zookeys

Professional Affiliations: Society for the Study of Evolution; Society for Integrative and Comparative Biology; American Arachnological Society; International Society of Arachnology

Popular science articles:

2013. Contributed to section in book: "What on Earth?: 100 of our planet's most amazing new species"

2012. Natural History Museum of Denmark Magazine, "Speciation on Madagascar: archaeid spiders"

2008. Live, California Academy of Sciences Magazine, "The Last Frontier"

2008. California Academy of Sciences' "Science Now" webpage: www.calacademy.org/science_now/academy_research/assassin_spiders.php

2006. California Academy of Sciences Member Publication, "Tiny Assassins"

Museum Exhibits, Presentations, and Outreach:

2013. Presented research to a community college biology class on the scientific method.

2013. Guided 7th and 8th graders on 3D computer software using my spider scans as example data, Lawrence Berkeley National Lab, Advance Light Synchrotron

2013. Involved in public display that shows 3D computer animations of tomography scans, including a spider scan, Lawrence Berkeley National Lab, Advance Light Synchrotron

2012. Involved in creating public floor spider exhibit where my research is also presented at the Natural History Museum of Denmark

2010. Public floor presentation that is available online: "Assassin Spiders from Around the World," online link: http://video.calacademy.org/details/309, California Academy of Sciences Natural History Museum

2009. Public presentation, "Cryptic Hunters" at the Bone Room natural history store in Berkeley

2009. Public presentation, "Cryptic Hunters: the tiny world of assassin spiders" at the California Academy of Sciences "Nightlife"